

## CONTENTS TO VOLUME 71

*Vol. 71 Nos. 1-2 1995*

S. K. MIDYA and D. MIDYA / Interrelation between Monthly Mean Values of Ionospheric and Solar Parameters and Their Effect on 5577 $\text{\AA}$ Night Emission	1-7
J. YOU, K. KAUFANEN, and J. RAITALA / Fractal Properties of Crater Ejecta Outlines on Venus	9-31
E. RENNAN PEKÜNLÜ / Radial Diffusion Revisited	33-41
SH. T. HABIBULLIN / On the Rotation of Rigid Venus	43-58
MILAN BURŠA / Geoidal Potential Free of Zero-Frequency Tidal Distortion	59-64
DEBI PRASAD C. / The Role of Critical Velocity Ionization Phenomena in the Atmosphere of IO	65-71
J. J. MONAGHAN / Flaws in the Modern Laplacian Theory	73-84
W. J. BAGGALEY / Meteoroid Orbital Characteristics by Radar Surveillance	85-97
MARIBETH PRICE and JOHN SUPPE / Constraints on the Resurfacing History of Venus from the Hypsometry and Distribution of Volcanism, Tectonism, and Impact Craters	99-145
P. K. JANA and S. K. MIDYA / A Theoretical Model of Altitudinal Distribution of Sodium Atom	147-152
JEAN SCHNEIDER and LAURANCE R. DOYLE / Ground-Based Detection of Terrestrial Extrasolar Planets by Photometry: The Case for CM Draconis	153-173
Book reviews	
G. C. Brown and A. E. Mussett: <i>The Inaccessible Earth - An integrated view of its structure and composition</i> (PETR JAKEŠ)	175-176
Paul Hodge: <i>Meteorite Craters and Impact Structures of the Earth</i> (MARCK WOLF)	176

*Vol. 71 No. 3 December 1995*

### WORLDS IN INTERACTION: SMALL BODIES AND PLANETS OF THE SOLAR SYSTEM

*Presentation of the Poster Papers*

Edited by H. RICKMAN and M.J. VALTONEN

Preface	v
P. PRAVEC, M. WOLF, M. VARADY, and P. BÁRTA, / CCD Photometry of 6 Near-Earth Asteroids	177-187
C-I. LAGERKVIST, M. DI MARTINO, C. BLANCO, M. DAHLGREN, A. ERIKSON, J. F. LAHULLA, M. LAZZARIN, K. LUMME, S. POHJOLAINEN, and D. RICCIOLI / Physical Studies of Asteroids XXX: The Asteroid 153 Hilda	189-194
SEPPO MIKKOLA and KIMMO INNANEN / On the Stability of High Inclination Trojans	195-198
JAMES L. HILTON and P. K. SEIDELMANN / The Asteroid Ephemerides Program at the U.S. Naval Observatory	199-206
R. GIL HUTTON / A Search Program for Objects in the Vicinity of the Earth	207-210
K. I. CHURYUMOV and I. A. YASTRJEMBSKY / Observations of Comet Churyumov-Solodovnikov and Investigation of Its Orbital Motion	211-214
Y. D. MEDVEDEV, E. A. KOZLOV, and E. M. PITTIKH / New Edition of the Catalogue of Short-Period Comets	215-218
M. J. VALTONEN, J. Q. ZHENG, J. J. MATESE, and P. G. WHITMAN / Near-Earth Populations of Bodies Coming from the Oort Cloud and Their Impacts with Planets	219-223
E. LOHINGER, R. DVORAK, and C. FROESCHLÉ / Encounter Frequency of Halley-Like Comets with the Planets	225-233
D. C. BOICE, J. BENKHOFF, and G. R. GLADSTONE / Comet P/Shoemaker-Levy 9: Gas Release and Precollision Characterization	235-236
JIRÍ BOROVIČKA and JAROSLAV BOČEK / Television Spectra of Meteors	237-244
W. G. ELFORD / Very Small Bodies in the Solar System: The Earth's Atmosphere as Detector	245-253
T. I. ORLOVA and V. V. SVETSOV / Deep Penetration of Projectile Material into the Planet During the Impact	255-263
M. A. ENGLISH and N. MCBRIDE / The Dust Environment at Titan	265-271
NINA A. SOLOVAYA / Some Particularities in Motion of Retrograde Satellites of Jupiter	273-279
ADRIAN BRUNINI and PROFOEG CONICET / Capture of Planetesimals by the Giant Planets	281-284
Author Index	285
Volume Contents	287-288

